

CORRECTED VERSION

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 January 2004 (29.01.2004)

PCT

(10) International Publication Number
WO 2004/009840 A1

(51) International Patent Classification⁷: C12Q 1/24,
C12M 1/34

(21) International Application Number:
PCT/US2003/023131

(22) International Filing Date: 24 July 2003 (24.07.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/398,324 24 July 2002 (24.07.2002) US
60/398,203 24 July 2002 (24.07.2002) US
60/398,314 24 July 2002 (24.07.2002) US
60/398,235 24 July 2002 (24.07.2002) US
60/398,148 24 July 2002 (24.07.2002) US

(71) Applicant (for all designated States except US): BOARD
OF REGENTS, THE UNIVERSITY OF TEXAS SYS-
TEM [US/US]; 201 West 7th Street, Austin, TX 78701
(US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): MCDEVITT, John,
T. [US/US]; 4812 Eagle Feather Drive, Austin, TX 78735

(US). FLORIANO, Pierre [FR/US]; 8103 Richard King
Trail, Austin, TX 78749 (US). CHRISTODOULIDES,
Nick, J. [CY/US]; 1200 Barton Hills, Apartment 304,
Austin, TX 78704 (US). GOODEY, Adrian [US/US];
7303 Wood Hollow Drive, Austin, TX 78731 (US).
NEIKIRK, Dean [US/US]; 6604 Auburn Hill, Austin, TX
78723 (US). ANSLYN, Eric [US/US]; 8323 Young Lane,
Austin, TX 78737 (US). SHEAR, Jason [US/US]; 4433
Sacred Arrow Drive, Austin, TX 78735 (US).

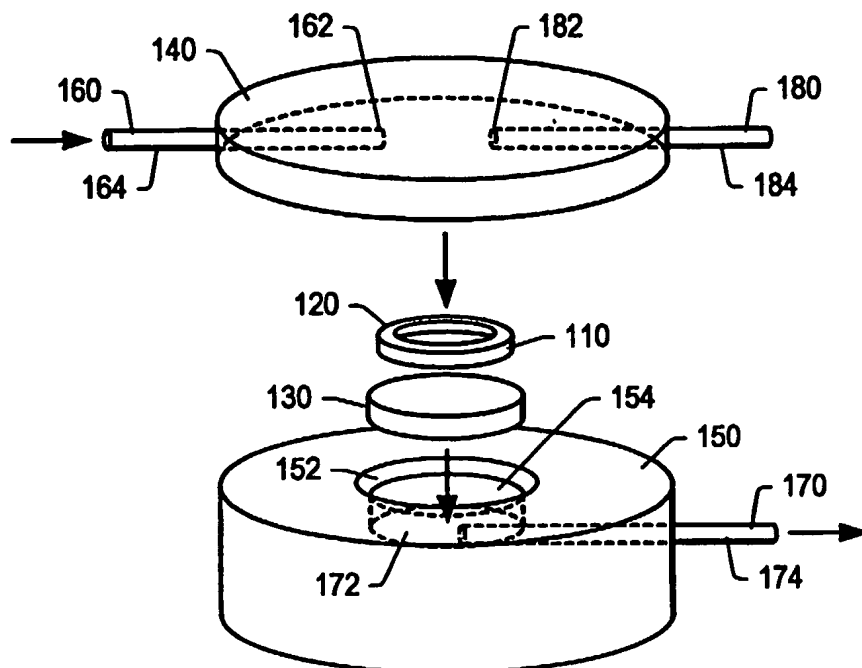
(74) Agent: MEYERTONS, Eric, B.; Meyertons, Hood,
Kivlin, Kowert & Goetzel, P.C., P.O. Box 398, Austin, TX
78767-0398 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,
CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),

[Continued on next page]

(54) Title: CAPTURE AND DETECTION OF MICROBES BY MEMBRANE METHODS



(57) Abstract: Methods and systems for detecting the presence of analytes using a membrane based detection system are described. A fluid sample is passed through a membrane based detection system (100). Particulate analytes (e.g., microbes) are captured by the membrane (110). Detection and analysis techniques may be applied to determine the identity and quantity of the captured analytes.



Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

(48) Date of publication of this corrected version:

13 May 2004

(15) Information about Correction:

see PCT Gazette No. 20/2004 of 13 May 2004, Section II

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.